

```

# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
- Editor: Ary Boender      *****      e-mail: ary@luna.nl -
- Nickname on IRC channels #wun #monitor #numbers: Ary-B -
----- Co-editors -----
- Voice stations: Chris Smolinski <cps@access.digex.net> -
- Loggings: Jascha Ruessler <znn0000000@hotmail.com> -
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

```

-::: N&O #13 :::-

Thanks to all of you who sent info to the WUN and Spooks reflectors or directly to me; especially thanks to Hans-Friedrich, Crowd36, 2x Bob, Guy, John, Murray, Darren, Andreas, Rimantas, Al, Wolfgang, Alf and several people who wish to remain anonymous. Keep your stuff coming folks!

* N&O DATABASE *

A new project starts here today. AC created a N&O database and wrote an opening text for the project. It would be very nice if many people would co-operate in this project, so we are waiting for your help and suggestions. For the time being you can reach AC thru me at ary@luna.nl

The N&O Database - Storing, Sorting and Retrieving the Logs

Introduction

As megawatts of radio energy keyed for carrying coded informations are pumped into the thin air, the continuous flow of radio intercept logs pile up (approximately 600 records/month) forming a huge mass of data, which needs to be stored, sorted and if needed -retrieved for further analysis. For the time being, logs arrive by e-mail in free text form, which creates difficulties when storing and sorting (e.g. by frequency) is attempted.

The amount of accumulated data over the time goes beyond the limits of "manual" handling. Just look at the N&O Logs in this month, and estimate the total number of records by the end of the year, say $12 \times 500 = 6000$ (a modest guess) a pretty big mass of numbers and letters. How can one analyze this mass for parallel transmissions, skeds or for frequencies of a particular station ?

The only way forward is to enter the existing and the new data into a searchable relational database, which will allow to filter, sort, analyze the data by a couple of keystrokes.

The idea is not new or revolutionary. When I discovered the WUN website, and fell in love with the N&O column and seeing the logs it

flashed through my mind right away: ...how can I find anything in this haystack ? Soon after this I looked into the technical possibilities and concluded at the followings:

- incoming data should be pre-formatted - WUN format preferred-, or Sacha's, etc.- into records
- records from emails should be stored away in a searchable relational database (dBase, Clipper, or similar)

I spent some time with trying to find an easy but satisfactory solution for this "worldwide data acquisition - centralized databasing" task. Frankly, there isn't any easy way. Let me summarize the problems in the followings:

For pre-formatting the intercepts into records, we all need to run a program on our confusers, which creates the same output record format. The -seemingly- easiest way is to type the data straight into an Excel worksheet (or even better into a database input record format), than email it to the person, who maintains the database. He could then import the records into the database, and that's it. So we all need the same version of Excel. Let's say MS Excel 7. Do you all have it ?

Probably, some of us have access to Excel 7, and we should start punching in our numbers and oddities for the relief of the poor "librarian". For those who doesn't, an input log form (similar to ham's station log book) is created and is going to be circulated soon.

A database is a database. There could be 1 PC and 1 only (and a dear operator) which keeps the data, ie. the database. Where this PC should be? Who will be the custodian of the system? How can you access the data? This has to be worked out for everyone's satisfaction. I need your suggestions.

Regarding to the database program: as the Clipper is obsolete, and Excel is not a databasing program, the obvious choice is the Microsoft MS Access 7, which is a stable and good relational database program, having interfaces with Excel and other MS programs.

Yes, the database is created in Access 7, running, and has grown up to 460 records (still a baby)! Any suggested an input form, which speeds up data input, saves eyesight with its big characters and already linked to the core database program. The program itself stores the following data:

Frequency in kHz, Called, Station, Code, UTC, Day, Date, Mode, Language, Speaker, Remarks

- The called is the intended recipient, eg. VLB, or SYN, etc.
- The Station is eg. LP, or Cherry Ripe, etc.
- Code is Enigma-code.
- UTC is the time (self explanatory, isn't it)
- Day is Monday, Tuesday, etc. automatically calculated from the date.
- Date format is dd/mm/yyyy (and no Y2K bug).
- Mode has a pull down pick list (AM, AMSC, CW, MCW, USB, LSB, DSB, CAR, JAM, IMP)
- Language has a pull down pick list (EE,SS,GE,HH,RR,CZ,SL,??)
- Speaker could be YL,OM,NEU (pull down list, too)
- Remarks - could be of any length (even for Charlie-Charlie-Romeo-Whiskeys & Co - better not though)

I know, the question is on your tongue(s) now: what is all that for ? The database is organized into records, each record has a primary key, which is the frequency in kHz. The records are unsorted as entered, as the new records always added to the end of the list of the existing (stored) ones. However, with a keystroke, all records are sorted in ascending or decending orders of frequencies. Sorting by station names, etc. does not make any sense (to me).

The real beauty in the "databasing" is when it comes to "filtering". In sort, records from the database could be selected on filtering attributes. Each data in the records could be a filtering attribute, except the name of the day. An example of filtering is the answer to the following request: Find all tx for "Atencion" ! The result is the list of all recorded Atencion traffic (could be printed, as well). The filtering attributes could be combined, such as: "All Atencion tfc on 13125 kHz in January" ... etc. The process is quite simple: click on the attribute (eg. on one "Atencion") and click on the funnel symbol: voila- the job is done, you may print it out.

Here I have to finish today. Next month we could go into more details, and include examples, screen dumps for reference. A final word, however: would you have access to Access 7, please let me know. For your convenience, I can email a copy of the database program for you.

[AC}

★ VOICE STATIONS ★

::: S17

S17 seems to have moved frequency again, from 9385 to 6945. 8190 is unchanged. The change happened between the 17th of Feb and the 29th of March.

::: UNID VOICE STATION

The unid from last month still remains an unid, but the 'names' that were repeated (OLGA, SERGEI, YURI, MIKHAIL, NICKOLEI, IVAN etc) are simply letters from a Russian phonetic alphabet.

::: THREE-NOTE ODDITY [G04]

Hans-Friedrich Dumrese'S monthly G04 analysis

04.04.99 2005Z 5.310 kHz

2035Z 5.210 kHz

^^^^

Summertime

Message : 65214 75458 20154 95458 32025 96645 32125 75458 52147 30014
12125 84520 32125 75458 95458 33654 65458 78500 95458 32125
21214 85457 32125 00214 65458 32122 30214

Analysis: Frequent groups: 32125 4x
65458 2x
75458 3x
95458 3x

First two figures :	00214	Last three figures:	30014
	12125		32025
	20154		32122
	21214		12125
	30014		32 4x
	214		52147
	32025		20154
	122		00214
	125 4x		21
	33654		30
	52147		65
	65214		85457
	458 2x		65458 2x
	75458 3x		75 3x
	78500		95 3x
	84520		78500
	85457		84520
	95458 3x		96645
	96645		33654

History : Sommer 2005 2035
Winter 2105 2135

01/96	3227	3127	02/96	3409	3309
03/96	3419	3319	04/96	4581	4481
05/96	4165	4065	06/96	4340	4240

07/96	3935	3835	08/96	4165	4065
09/96	3930	3830	10/96	3280	3180
11/96	3270	3170	12/96	3285	3185
01/97	3230	3130	02/97	3245	3145
03/97	3275	3175	04/97	3936	3836
05/97	4245	4145	06/97	4376	4276
07/97	3930	3830	08/97	3935	3835
09/97	3915	3815	10/97	3315	3215
11/97	3265	3165	12/97	3255	3155
01/98	3255	3155	02/98	3265	3165
03/98	4435	4335	04/98	4745	4645
05/98	5410	5310	06/98	5730	5630
07/98	5840	5740	08/98	5755	5655
09/98	5310	5210	10/98	4685	4585
11/98	3940	3840	12/98	3380	3280
01/99	3415	3315	02/99	3905	3805
03/99	4520	4420	04/99	5310	5210

::: EASTERN MUSIC STATION [V08]

A couple of weeks ago, on a Saturday (date, time and freq unknown) the Eastern Music Station was heard with a new musical intro.
<info: Christian Spremberg, relayed by Andreas>

::: OBLIQUE [E11]

Darren copied the E11 numbers station 'Oblique' twice on Fridays at 1200 UTC. It looks like a regular sked for this rare station.

9130 Oblique (E11) 1201 (040999) USB Sked 187 null message

9130 Oblique (E11) 1200 (041699) USB Sked 187 null message

-0-0-0-0-0-0-0-0-0-0-

* MORSE STATIONS *

::: DEA47

In last month's Memory Lane I mentioned the BFST. The correct name of this organisation is 'Bundesstelle fuer Fernmeldestatistik', which is an affiliate of the BND.

::: M76

M76 has changed times and is on at 1650 UTC. As the evenings get lighter the signal seems to be getting weaker and weaker in Western Europe.

::: A2A [M63]

A2A monitor John reports: ''As expected, "A2A"'s morning transmission is now 0500 UTC instead of 0600 UTC - that is, it is still at 8 a.m.

local time since apparently the clocks were put forward one hour all over Europe (including the UK). I have found only one freq so far; the other A2A freq and the net stations freq will have to wait for another sleepless early morning.

5004 "A2A" (? somewhere in Romania) 0500 CW call-up. RTTY xmsn at 115.75 bd ACF 23, followed at 0530 by CW QSOs with the usual 40 stations, all acknowledging receipt of the RTTY. (31 March)

Since we put the clocks forward, I have heard "A2A" in the evenings on 4109, 4318, 4319, 4362, 5004, 5114 and 5116, with the other stations replying on 4067 or 4546, at various times between 1930 and 2130. Only once was I awake at 0500, and he was on 4319 and 5116 (I did not wait to look for the other stations).'

<info John>

::: UNID MORSE STATION

10155 kHz 2137 UTC with "253" repeated over and over. Transmission ended at 2140 UTC.

-0-0-0-0-0-0-0-0-0-0-

* RTTY STATIONS *

::: FAPSI intercepts during the past month

Freq.	to	link	UTC
-----	---	-----	----
10482		80061	0900
11014	NOB	70004	1430
13410		20076	1215
13452	JMS	00127	2238
13556	HZW	00117	2009
14373	KAC	00128	2058
14402		00104	1200
14402		00104	1215
14434	KRN	00178	1750
14457	WFO	00125	2245
14720		40078	1250
14730		20076	1300
14731	BPA	00116	1515
14843	JMS	00127	2230
16130		10075	0950
16218	HZW	00117	2000
16223		40034	0950
16257		90057	0850
16285		00177	0840

17416	KRN	00178	1735
18210		00149	1050
18401	KAC	00128	2050
19923	PSN	00126	2255
20425		00054	0920
22865	PSN	00126	2240

Wolfgang told me that he heard a KUL 50bd transmission as far back as 13 June 1984 at 1457 UTC on 10584 kHz, in an ancient format very much like the one that various CW stations still transmit! Thanks for this item, Wolfgang. Interesting to see what format they used in the past.

Example:

kul kul kul ryryryryryry

nr 38 gr 190 =73447= 559.....(garbled) fdwzm obmbn

ending with : voovs iziaw

q r u q r u s k s k

::: US Intelligence

US Intelligence transmits numbers transmissions from a remote site near Frankfurt in Germany. The transmissions are probably sent to this site by micro wave from the Rhein Main Air Force Base. Freqs used are 6780, 6891, 6960, 8029, 10253 and 11072 kHz

The same site or one near by, is used to transmit the infamous 108.5 bd FEC broadcasts, also coming from an US Intelligence service.

-o-o-o-o-o-o-o-o-o-o-

* VARIOUS MODES *

Rimantas Pleikys checks in with an interesting log:

"The Blank Carrier"(low burbling hum: two tones peaking 250 Hz apart; a kind of FSK?), on the following frequencies: 4049, 4301, 4705, 5305, 6801 kHz

5305.5 kHz	20:00-20:20 UTC	S.I.O 545
5307.5 kHz	20:20-20:40 UTC	S.I.O.343
5308.0 kHz	20:00-21:00?UTC	S.I.O.232

Seems as a group of 3 xmitters at 3 sites, on 3 close frequencies, in the time-shifted schedule. Navigation system? Any ideas? At 21:40 UTC

both 5307.5 and 5308.0 went off; at 22:00 - 5305.5 started again; at 22:20 started both 5307.5 and 5308.0.

Schedules to be monitored. Any comments, reception levels?''

Beats me Rimantas; I have no idea. Info or suggestions are most welcome folks!

-o-o-o-o-o-o-o-o-o-o-

Numbers + Oddities Newsletter LOG COLUMN APRIL 1999

#####

Jascha Ruesseler

znn000000@hotmail.com

#####

Hi, folx, welcome to the number station logbook.

Our log format is as follows:

FREQ c/s Station Enigma-Code rest in free format should include time, date, mode, details and initials, (and maximally one space in between the entries !)

Please use the following format for the date: mmddyy, that is 121498 from now on. Please note that I can only include logs in the column which stick to this format.

This column contains logs posted to the spooks mailing list or to Ary or myself privately. For an up-to-date reference of the enigma designators see n+o faq. If you want to remain anonymous, just send your logs to me or Ary with a note saying so.

Unfortunately, I lost some of the contributors names due to changes in the way I handle the log data. This explains the missing initials. Sorry about that.

Tnx go out to Alpar for help with log formatting.

TCS = the counting station

LP = Lincolnshire Poacher

CR = CR

Let's open the logbook...

#####

2136 Unid 04/18/99 at 7.03 SSB slavic female in progress 3FG (L)
Cut-Numbers M8 0400z (04-04-99) very faint - sounded like
DGGMA MIDTD GIWUN (PFR)

Atencion/V2 0200 Sun 4/4/99 YL/SS extremely weak. (JM4)
 3245 Atencion/V2 0200 Sun 4/11/99 YL/SS extremely weak. (JM4)
 3410 5f>VA (M17), 2000Z, 031799, 70563, 5s dots, 35 BT, 5f (short 0)
 (hfd) 5f > VA (M17), 2000Z, 031799, 70563, 5s dots, 35 BT, 5f
 (short 0) (hfd)
 3415 E10 2047z trfc(AK)
 3757 The Pip 24h (S30), 1945Z, 030399, 63 pips/min (hfd)
 3927 Atencion/V2 0100 Sun 4/4/99 YL/SS extremely weak. (JM4)
 4016 Cut-Numbers M8 0432z (01-04-99) in progress (PFR)
 4027 Cut-Numbers M8 0600z (13-04-99) IWAAN DTTAN AGADD (PFR)
 4028 Atencion V2 0630z (08-04-99) in progress (PFR)
 4045 English Man? E6 1905 (041599) AM Calling 512345678900000000
 twice, machine bust ? (DR)
 4049 Blank carrier 2200-2300z 04061999 two tones 250 Hz apart (RP)
 4130 3l (pre NATO) (E15), 2100Z, 031899, m OSS QRU (hfd)
 4174 Atencion/V2 0300 Mon 3/29/99 YL/SS rptg A 09513 25661 08603
 5FG. (JM4)
 4301 Blank carrier 2200-2300z 04061999 two tones 250 Hz apart (RP)
 4340 Unid 1900 041099 USB RR 3FG with some other msgs in between
 Numbers are
 4360 "E10 2146z ""SYN2""(AK)"
 4420 3 note (G04), 2135Z, 030799, 21587 32658 95458 (hfd)
 4461 Phonetic Alphabet-NATO (E10) 2102 (032999) USB id FTJ group 117
 GLDUV DXRHF CTNEY (DR)
 4479 Atencion V2 0411z (09-04-99) in progress (PFR)
 Atencion/V2 0300 Wed 3/31/99 YL/SS rptg A 10453 82039 53351 5FG.
 (JM4)
 4506 Cut-Numbers M8 0411z (09-04-99) in progress (PFR)
 4520 3 note (G04), 2105Z, 030799, 21587 32658 95458 (hfd)
 4555 5F < == 3f 2or3F 000 (M45), 1802Z, 031899, 555 (hfd)
 4559 English Man (E7) 2141 (032999) AM Sked 825 key 610 gc 53 (DR)
 4560 "E10 2032z ""YHF""(AK)"
 4619 German Lady (G7) 2052 (041299) AM Sked 359 key 4216 gc 31 (DR)
 German Lady (G7) 2051 (040599) AM Sked 359 key 4216 gc 31 (DR)
 4620 5F < 3F 2/3F 00000 (M14A), 1900Z, 032699, 560 (hfd)
 4705 Blank carrier 2200-2300z 04061999 two tones 250 Hz apart (RP)
 4740 5f > VA (M17), 2040Z, 031799, 70563, 5s dots, 35 BT, 5f (short 0)
 (hfd)
 5f > VA (M17), 2040Z, 031799, 70563, 5s dots, 35 BT, 5f (short 0)
 (hfd)
 4880 E10 2023z trfc(AK)
 4950 5F < == 3F 2or3F 00 (M01B), 1819Z, 031799, 103 (hfd)
 5F < == 3F 2or3F 00 (M01B), 2110Z, 032299, 298 4##/42 (hfd)
 5017 5F < == 3F 2or3F 00 (M01), 2000Z, 031899, 463 (hfd)
 5080 Russian Man (S6) 1903 (041199) AM Sked 238 key 947 gc 86 (DR)
 5091 Phonetic Alphabet-NATO (E10a) 2100 (041199) USB id JSR2 (DR)
 T.C.S. E-10 18.00. v.strong
 Phonetic Alphabet-NATO (E10a) 1930 (040199) USB id JSR1 (DR)

E10 1837z trfc(AK)
 E10 1900z ""JSR""(AK)
 E10 2031z ""JSR2""(AK)
 5170 Phonetic Alphabet-NATO (E10a) 2127 (032999) USB id KPA2 continuous (DR)
 5210 Three Note Oddity (G3) 2035 (041199) AM (DR)
 5230 Russian Man (S6) 2103 (040699) AM Null msg format (DR)
 5243 German Lady (G7) 2121 (032999) AM Sked 418 Null msg format (DR)
 5267 English Man (E7) 2122 (032999) AM Sked 825 key 610 gc 53 (DR)
 5305 Blank carrier 2200-2300z 04061999 two tones 250 Hz apart (RP)
 5310 Three Note Oddity (G3) 2005 (041199) AM Good rx 65214 75458 20154.. (DR)
 5339 Phonetic Alphabet-NATO (E10a) 2123 (032999) USB id TMS2 continuous (DR)
 5345 Russian Man (S6) 2101 (041099) AM Sked 826 Null msg format (DR)
 5417 English Man (E6) 2012 (032999) AM Sked 715 key 469 gc 201 89016 05665 56472 (DR)
 5419 Cut-Numbers M8 0200z (12-04-99) UIIUD TMRUN RMAIN (PFR)
 5422 E-03 04/08/99 THU 17.07 22135 V.WEAK(SG)
 E-03 04/09/99 FRI 18.04 UNREADABLE JAMMING?(SG)
 E-03 04/02/99 FRI 18.05 22135 JAMMED
 5435 Mossad E10 0300 Sat 4/17/99 YL/EE rptg ART 5LG. (JM4)
 Mossad E10 0300 Mon 4/19/99 YL/EE rptg ART 5LG. (JM4)
 Mossad E10 0300 Wed 4/14/99 YL/EE rptg ART 5LG. (JM4)
 Mossad/E10 0300 Thu 4/15/99 YL/EE rptg ART 5LG. (JM4)
 Mossad/E10 0300 Fri 4/16/99 YL/EE rptg ART 5LG. (JM4)
 Mossad/E10 0300 Sat 4/10/99 YL/EE rptg ART 5LG. (JM4)
 Mossad/E10 0300 Sun 4/4/99 YL/EE rptg ART 5LG. "Whales" could be heard faintly in the background. (JM4)
 Mossad/E10 0300 Mon 3/29/99 YL/EE rptg ART 5LG. (JM4)
 Mossad/E10 0300 Wed 3/31/99 YL/EE rptg ART 5LG. (JM4)
 Mossad/E10 0300 Thu 4/1/99 YL/EE rptg ART 5LG. (JM4)
 Mossad/E10 0300 Sat 4/3/99 YL/EE rptg ART 5LG. The "whales" could be heard faintly in the background. (JM4)
 31 (NATO) (E10), 2130Z, 030199, ART, data bursts! (hfd)
 5450 The Pip 24h (S30), 0530Z, 030399, 63 pips/min (hfd)
 5460 VDE, 5F < AR (M29), 2000Z, 031499, vvv 76 11 8 1900 (hfd)
 5474 5F < == 3F 2or3F 00 (M01), 1800Z, 031899, 463 (hfd)
 5530 31 (pre NATO) (E15), 2000Z, 032099, m PAR QRU (live) (hfd)
 5732 Two-Letter German/G16 0400 Sun 4/4/99 YL/GG rptg Whiskey Lima w/electronic tune. At 0405, ...026; 026 68 gruppen... Achtung! and into 3/2FGx2. Down at :14 w/ende. (JM4)
 5746 LP (E3) 2105 (041199) USB id 99197(DR)
 German Lady (G7) 2042 (040599) AM In progress, bizarre transmission with uneven spacing between numbers, ended with six oddly spaced zeros with no key or group count (DR)
 5751 VDE, 5F < AR (M29), 1800Z, 031499, vvv, 76 11 8 1900 (hfd)

5763 Atencion V2 0200 Sat 4/17/99 YL/SS 5FG in progress. (JM4)
 Atencion/V2 0200 Sat 4/10/99 YL/SS rptg A 18562 51361 51201 5FG.
 (JM4)
 Atencion/V2 0200 Sat 4/3/99 YL/SS rptg A 18561 256_2 4448_ 5FG.
 QRM from broadcasters. (JM4)
 5830 5f < ==000 (M03), 1630Z, 032199, 287/00 (short 0) (hfd)
 5834 3l (pre NATO) (E15), 1800Z, 030899, m USP (hfd)
 6200 3 msg, no breaks (ex ""Swedish Rhapsody"") (E23), 0957Z, 032299,
 78018 95010 10215 78015 35700 24835 (hfd)
 6270 Mossad E10 0100 Wed 4/14/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Thu 4/15/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Fri 4/16/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Thu 4/8/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Fri 4/9/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Mon 4/12/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Sun 4/4/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Wed 4/7/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Mon 3/29/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Wed 3/31/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Thu 4/1/99 YL/EE rptg ULX 5LG. (JM4)
 E10 1938z trfc(AK)
 6420 VDE, 5F < AR (M29A), 0800Z, 032399, vvv (hfd)
 VDE, 5F < AR (M29A), 1400Z, 032399, vvv (hfd)
 6485 E-03 04/09/99 FRI 18.04 22135 FAIR(SG)
 6545 ... LSB YL EE 32N 22:20 10.03.99 live
 6645 Eastern Music Station (V8) 1800 (040399) AM Good modulation,
 music, Arabic numbers, music, finished at 1820 (DR)
 6658 "E10 1918z ""KPA2""(AK)"
 6715 3l (pre NATO) (E15), 1630Z, 030899, m NAS QRU (hfd)
 6745 3l (NATO) (E10), 1745Z, 032299, VLB2, also at 1907 (hfd)
 3l (NATO) (E10), 0545Z, 032299, VLB2 (hfd)
 6768 Atencion/V2 0100 Sat 4/10 99 YL/SS rptg A 18562 51361 51201 5FG
 (JM4) Atencion/V2 0400 Mon 3/29/99 YL/SS rptg A 60213 68632
 24922 5FG. (JM4) Atencion/V2 0100 Sat 4/3/99 YL/SS 5FG in pro-
 gress. (JM4)
 6780 TCS, 3/2F counting (E05), 2200Z, 032199, 145 (hfd)
 TCS (E5) 2000 (032999) USB id 834 count 127 946/54
 926/45 577/81 (DR)
 Intel.-Service RM Air Base CIA USB YL EE 5N 22:27 10.03.99 (ANGE)
 Intel.-Service RM Air Base CIA USB YL EE 5N 20:11 11.03.99 (ANGE)
 Intel.-Service RM Air Base CIA USB YL EE 5N 22:03 14.03.99 (ANGE)
 6782 5f < 000 000 (M12), 1700Z, 032199, 749 749 749 000 short 0 (hfd)
 6786 Atencion V2 0620z (11-04-99) in progress (PFR)
 no sign of M8 0600z (PFR)
 6801 Blank carrier 2200-2300z 04061999 two tones 250 Hz apart (RP)
 6818 Jammer USB 17:20
 6834 Unid 2109z AM 5Fg (not repeated) EE male ending with 000 000
 at 2111z

6840 31 (NATO) (E10), 2200Z, 032199, EZI2 (hfd)
 Phonetic Alphabet-NATO (E10) 1902 (040199) USB id EZI group
 64 (DR) E10 1901z ""EZI""(AK) 31 (NATO) (E10), 2200Z, 032199,
 EZI2 (hfd) Mossad E10 USB YL EE 5P 17:19 07.03.99 (ANGE)
 Mossad USB YL EE 5P 20:06 11.03.99 (ANGE) Mossad USB YL EE 5P
 19:36 21.03.99 (ANGE)

6855 Atencion V2a 0300 Mon 4/19/99 YL/SS rptg A 92533 39162 19122 5FG
 (JM4) Atencion/V2 0300 Mon 3/29/99 YL/SS rptg A 60213 68632
 24922 5FG. (JM4) AM 0600 UTC-? Spanish V5 (I think) Jamming of
 frequency.(MW)

6891 TCS, 3/2F counting (E05), 2000Z, 031499, 070/165 22963 18254
 30373 (hfd) TCS, 3/2F counting (E05), 2000Z, 031499, 070/165
 22963 18254 30373 (hfd)
 Intel.-Service RM Air Base CIA USB YL EE 5N 20:14 21.03.99 (ANGE)
 Intel.-Service RM Air Base CIA USB YL EE 5N 20:27 26.03.99 (ANGE)

6939 Spanish Man V7 2012 (041699) AM Sked 275 null msg format (DR)
 Spanish Man (V7) 2010 (040999) AM Sked 275 null msg format (DR)
 Spanish Man (V7) 2011 (040299) AM Sked 275 null msg format (DR)

6945 Czech Lady 'Control' S17 1252 (041799) USB msg group:99042 (DR)
 Czech Lady Control S17 1250 (040499) USB msg group:98042(DR)
 Czech Lady Control S17 1250 (032999) USB msg group:
 90034 first time I have heard S17 on 6945 (DR)
 Czech Lady Control S17 1250 (040299) USB msg group:75031 (DR)

6956 Jammer USB 19:33 21.03.99 (ANGE)

6959 E-03 04/08/99 THU 72717 V.STRONG (SG)
 E-03 04/08/99 THU 20.05 99884 JAMMED(SG)
 LP (E3) 2105 (041199) USB id 99197(DR)
 E-03 04/05/99 MON 17.11
 E3 2029z (L Poacher) trfc(AK)
 E3 2108z ""99884""(AK)
 LP with Jammer USB YL EE 5N 20:22 04.03.99 (ANGE)
 LP with Jammer USB YL EE 5N 21:05 22.03.99 (ANGE)
 LP with Jammer USB YL EE 5N 20:32 26.03.99 (ANGE)

6960 TCS (E5) 2201 (032999) USB id 200 count 142
 657/60 420/05 779/74 QRM off poacher (DR)
 Intel.-Service RM Air Base CIA USB YL EE 5N 22:27 10.03.99 (ANGE)

6965 Unid AM 1959z till 2001z 040399 AM 2101z till 2102z
 6 tones, repeated all the time. no transmission followed, no
 groups no figures no letters.(AK)

6970 Russian Man S6 1803 (041599) AM Sked 538 key 213 gc 46 00000 at
 1812(DR)
 TCS, 3/2F counting (E05), 1800Z, 031599, 110/149 03441 11451
 80172, //9070 (hfd)

7337 E-03 04/05/99 MON 18.11 JAMMED

7555 Atencion/V2 0300 Sun 4/4/99 YL/SS rptg A 21461 52251 62291 5FG. (JM4)

7585 E-05 03/31/99 WED 17.03 064
 TCS, 3/2F counting (E05), 1700Z, 032399, 064/109 23629 33713
 70287, //9219 (hfd)

E-05 17.08 064 count 109 v.strong
 7605 31 (NATO) (E10), 0545Z, 032299, SYN2 (hfd)
 7760 Mossad/E10 0100 Thu 4/15/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Fri 4/16/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Thu 4/8/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Fri 4/9/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Sun 4/11/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Mon 4/12/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Sun 4/4/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Wed 4/7/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Mon 3/29/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Wed 3/31/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Thu 4/1/99 YL/EE rptg ULX 5LG. (JM4)
 7887 Atencion/V2 0100 Sun 4/11/99 YL/SS rptg A 21464 52252 62292
 5FG. (JM4) Atencion/V2 0200 Sun 4/4/99 YL/SS rptg A 21461 52251
 62291 5FG. (JM4)
 7918 Mossad E10 0200 Mon 4/19/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad E10 0200 Wed 4/14/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0200 Thu 4/15/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0200 Fri 4/16/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0200 Fri 4/9/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0200 Sat 4/10/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0200 Sun 4/11/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0200 Mon 4/12/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0200 Sun 4/4/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0100 Wed 4/7/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0200 Wed 3/31/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0200 Thu 4/1/99 YL/EE rptg YHF 5LG. (JM4)
 Mossad/E10 0200 Sat 4/3/99 YL/EE rptg YHF 5LG. (JM4)
 7939 Six Notes (X6) 1502 (040299) AM Annoying beeps (DR)
 8085 TCS E5 19/04/99 MON 17.02 788 V.STRONG LOUD HUM(SG)
 E-05 04/08/99 THU 17.04 788 V.STRONG(SG)
 E-05 04/05/99 MON 17.09 788 142 V.STRONG
 TCS (E5) 1700 (040599) USB id 788 count 142 (DR)
 TCS, 3/2F counting (E05), 1700Z, 030899, 305/132 (hfd)
 8099 Spanish Man V7 2004 (041699) AM Sked 275 null msg format (DR)
 Spanish Man V7 2000 (040999) AM Sked 275 null msg format (DR)
 Spanish Man V7 2005 (040299) AM In progress null msg format (DR)
 8125 TCS, 3/2F counting (E05), 1700Z, 030799, 797/141 15220 91900
 74805, //9219 (hfd) TCS E-05 17.06 846 v.strong. TCS, 3/2F
 counting (E05), 1700Z, 030799, 797/141 15220 91900 74805,
 //9219 (hfd). TCS (E5) 2201 (032999) USB id 200 count 142 657/60
 420/05 779/74 QRM off poacher (DR)
 8155 Unid AM 0600 UTC-? English Woman with Accent.66017 66017 31822
 31822 02940 02940 66028 66028 54414 54414 94425 94425 79667
 79667 70490 70490 45314 5314...etc. All numbers repeated two
 times. (MW)
 8170 The English Woman E17 0400 Sat 4/17/99 YL/EE 5FGx2 in progress.

Abruptly down at :09. (JM4)
 English Man (E6) 2204 (041199) AM Sked 28_ key 340 gc 67 (DR)
 8173 Unid AM 1959z till 2001z 040399 AM 2101z till 2102z
 8180 X6 1905z 040899 AM 6 tones till 1909z (AK)
 English Lady (E17) 1231 (040299) AM In progress key 715
 gc 50 00000 at 1234 (DR)
 8182 Six Notes (X6) 1902 (040899) AM Beeps (DR)
 8186 Unid 2110z 040299 AM 5FG (repeated) EE male ending with 197
 197 60 00000 at 2119z, carrier off 2120 (AK)
 8188 3 msg, no breaks (ex Swedish Rhapsody) (E23), 1157Z, 032299,
 70815 90510 10215 70815 35700 24835 (hfd)
 3 msg, no breaks (ex Swedish Rhapsody) (E23), 1157Z, 032299,
 70815 90510 10215 70815 35700 24835 (hfd)
 8190 Czech Lady Control S17 1252 (041799) USB msg group:99042 (DR)
 Czech Lady Control S17 1251 (041099) USB msg group:81038 (DR)
 Czech Lady Control S17 1250 (040499) USB msg group:98042 (DR)
 Czech Lady Control S17 1253 (040599) USB msg group:93038 (I
 think) late start (DR)
 8190 5F <= 2F 2/3F 000 (M10), 1800Z, 031899, 555 633/99 801/22 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 031399, 91030, //9385 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 031499, 92034, //9385 (hfd)
 5F <= 2F 2/3F 000 (M10), 1800Z, 031499, 555 127/36 801/23 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 032099, 71033, //9385 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 032699, 88032, //9385 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 032899, 86037, //9385 (hfd)
 Czech Lady Control S17 1250 (032999) USB msg group:
 Czech Lady Control S17 1250 (040299) USB msg group:75031 (DR)
 5F <= 2F 2/3F 000 (M10), 1800Z, 031899, 555 633/99 801/22 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 031399, 91030, //9385 (hfd)
 5F <= 2F 2/3F 000 (M10), 1800Z, 031499, 555 127/36 801/23 (hfd)
 8300 New Star S13 1229Z (06.04.99) AM numbers station (SD)
 8307 several, favours 5f < AR (M23), 0800Z, 032399, 579 (hfd)
 several, favours 5f < AR (M23), 1400Z, 030799, 579, no msg, 1410
 s/off, //9285 (hfd)
 8375 unidentified 1300 Mon 4/19/99 YL/CC? 4FGx2 in progress. (JM4)
 unidentified 1300 Fri 4/16/99 YL/CC? 4FGx2 in progress. (JM4)
 (this is New Star BC)
 8464 E-03 04/08/99 THU 16.06 99197 RTTY TYPE QRM(SG)
 E-03 04/08/99 THU 17.05 22135 RTTY TYPE QRM(SG)
 E-03 004/05/99 MON 17.07 72717 QRM FROM RTTY TYPE SIGNAL
 8749 Atencion V2a Old Style 0400z (04-04-99) late start 0402z Atencion
 979/04 04/48 (PFR)

Atencion/V2 (old version) 0400 Sun 4/4/99 YL/SS rptg 959/04. (JM4)

9070 TCS, 3/2F counting (E05), 1800Z, 031599, 110/149 03441 11451
80172, //6970 (hfd) E-05 18.07 110 count 159 v.strong

9072 Six Notes (X6) 2002 (040199) AM Beeps (DR)

9075 carrier off at 1705 (DR) S6C is a fairly rare variant I believe.

9130 Oblique E11 1200 (041699) USB Sked 187 null msg format (DR)
Mossad E10 1401Z (08.04.99) AM numbers station id EZI grp 64 (SD)
Mossad/E10 0100 Thu 4/15/99 YL/EE rptg EZI 5LG. (JM4)
Mossad/E10 0100 Fri 4/16/99 YL/EE rptg EZI 5LG. (JM4)
Oblique (E11) 1201 (040999) USB Sked 187 null msg format (DR)
The first time I have caught E11. Chuffed.
Mossad/E10 0100 Sat 4/10/99 YL/EE rptg EZI 5LG. (JM4)
Mossad/E10 0100 Sun 4/4/99 YL/EE rptg EZI2 then down. (JM4)
Mossad/E10 0100 Mon 3/29/99 YL/EE rptg EZI 5LG. (JM4)
Mossad/E10 0100 Thu 4/1/99 YL/EE rptg ULX 5LG. (JM4)
Phonetic Alphabet-NATO (E10a) 1731 (040299) USB id EZI2 (DR)
Mossad USB YL EE 5P 19:31 21.03.99

9144 Unid AM 0600 UTC-? English Woman with Accent. All numbers
repeated two times. (English Man ?)

9145 Russian Man (S6) 1131 (032999) AM Sked 831 key 109 gc 3
followed by groups 66622 8657(6?) 99900 then 00000 at 1135.
Only 3 groups. Unusual (DR)

9172 Six Notes (X6) 2002 (040199) AM Beeps (DR)

9197 Polytone Station XP 2020 (040999) AM ~1 min msg (DR)
Polytone Station XP 2022 (041699) AM prob repeat of 2000 (DR)
Polytone Station (XP) 2020 (040999) AM Prob repeat of 2000 (DR)
Polytone Station (XP) 2010 (040699) AM Short msg, null? (DR)

9200 Unid 040699 2010z-2015z AM strong station transmitting tones,

9219 TCS (E5) 1701 (041599) USB id 788 count 142 (DR)
TCS E5 19/04/99 MON 17.00 788 142 V.STRONG(SG)
E-05 03/3199 WED 17.01 064
E-05 04/05/99 MON 17.00 788 V.STRONG
TCS (E5) 1700 (040599) USB id 788 count 142 (DR)

9219 TCS, 3/2F counting (E05), 1600Z, 030799, 396/152 10207 25077
46547, //10423 (hfd)
TCS, 3/2F counting (E05), 1700Z, 032399, 064/109 23629 33713
70287, //7585 (hfd)
TCS, 3/2F counting (E05), 1700Z, 030799, 797/141 15220 91900
74805, //8125 (hfd)
TCS, 3/2F counting (E05), 1700Z, 032199, 120/147 63314 29598
30545, //8125 (hfd)
TCS (E5) 1700 (032999) USB id 997 count 112 (DR)
T.C.S. E-05 16.05 609 count 159 v.strong
T.C.S E-05. 17.07 846 v.strong
TCS (E5) 1700 (040199) USB id 997 count 112 (DR)

9220 The English Lady/E17 0400 Mon 3/29/99 YL/EE rptg 386 then 749
749 25

9238 Cut-Numbers M8 0630z (08-04-99) in progress (PFR)

9251 E-03 04/08/99 THU 72717 V.STRONG(SG)
 E-03 04/08/99 THU 20.06 99884 JAMMED(SG)
 LP (E3) 2105 (041199) USB id 99197(DR)
 E-03 04/04/99 SUN 18.08 66093
 E-03 004/05/99 MON 18.06 08850 JAMMED
 LP E-03 19.05 61899
 9270 Mossad E10 1349Z (08.04.99) AM numbers station id SYN2 (SD)
 Mossad (E10) 0615Z (23.03.99) USB id SYN2 until 0651Z (SD)
 Mossad (E10) 0640Z (29.03.99) USB id SYN2 until 0650Z (SD)
 9285 several, favours 5f < AR (M23), 1400Z, 030799, 579, no msg,
 1410 s/off, //8307 (hfd)
 9323 Atencion/V2 0400 Thu 4/1/99 YL/SS rptg A 85561 13553 61622
 5FG. (JM4)
 9331 Spanish Lady V2 0636Z 12.04.99)AM numbers station in progress(SD)
 SPANISH LADY (V2) 0642Z (29.03.99) AM in progress (SD)
 SPANISH LADY (V2) 0639Z (05.04.99) AM in progress (SD)
 9385 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 31399, 91030, //8190 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 031499, 92034, //8190 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 032099, 71033, //8190 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 032699, 88032, //8190 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 032899, 86037, //8190 (hfd)
 Czech control single 5f msg (Bulg. Betty) (S17C), 1250Z,
 10236 Atencion V2a 0300 Mon 4/19/99 YL/SS rptg A 30193 00812 60663
 5FG. (JM4) Atencion/V2 0300 Mon 3/29/99 YL/SS rptg A 60333
 83_12 2910_ 5FG. Very weak. (JM4)
 10317 Atencion/V2 (old version) 0200 Thu 4/15/99 YL/SS rptg 238/01
 and 01/49 then into 5FG. This same call/msg was repeated five
 times before the station abruptly went off the air during a
 call-up for a sixth at :33.This may be a record for this station
 (JM4) Atencion /V2 (old version) 0200 Thu 4/8/99 YL/SS rptg A
 238/01 then 01/49 and into 5FG. Two final at :05, then 238/01
 and 01/49 call-up again and back into 5FG. Down at :12 w/two
 final. (JM4) Atencion/V2 (old version) 0200 Thu 4/1/99 YL/SS
 5FG in progress. Two
 10396 warble jammer 1500 Fri 4/16/99 nothing else audible. (JM4)
 10423 TCS, 3/2F counting (E05), 1600Z, 030799, 396/152 10207 25077
 46547, //9219 (hfd)
 TCS E-05 16.04 Sun 03/28/99 609 v.strong
 10426 E-03 04/04/99 SUN 16.04 72717
 LP (E3) 1406 (032999) USB id 29070 (DR)
 10446 Atencion V2 0300 Wed 4/14/99 YL/SS rptg A 21465 42451 30191
 5FG. (JM4)
 Spanish Lady V2 0534Z 12.04.99 AM numbers station in progress(SD)

Atencion/V2 0300 Wed 3/31/99 YL/SS rptg A 09444 59102 50541 5FG.
Note new frequency. Probable replacement for 6826 which was
silent. (JM4)

10597 Polytone Station XP 2002 (041699) AM ~70s msg (DR)
Polytone Station (XP) 2000 (040999) AM ~45s msg (DR)
Polytone Station (XP) 2000 (040699) AM Short msg, null? (DR)

10642 Slovak Man S10e 1300 (041399) USB 53769-91/20 63837-50/16
91092-14/18 21626-34/19 (DR)
S-10E 04/0899 THU 13.00 GOOD SIGNAL(SG)
Slovak Man (S10e) 1300 (040999) USB 67079-82/20 16753-39/16
52491-96/15 49063-69/17 (DR)
Slovak Man (S10e) 1300 (041099) USB 11592-12/19 64836-24/18
64418-98/17 5260-67/16 (DR)
Czech Lady Control S17 1251 (041099) USB msg group:81038 (DR)
Czech, piano piece, later 5 notes (S10E), 1300Z, 031399, 62243/
30/14 68076/ 61/18 34724/80/16. (hfd)

10648 E-10 04/08/99 THU 18.06 (SG)

10665 TCS V5 0300 Mon 4/19/99 YL/SS rptg 038 Grupo 152 3/2FG. Note
additional schedule. (JM4)
TCS/V5 0300 Mon 3/29/99 YL/SS rptg 038 Grupo 152 3/2FG. (JM4)
TCS/V5 0300 Thu 4/1/99 YL/SS rptg 038 Grupo 152 3/2FG. (JM4)

10670 V5 AM 0600 UTC-? Spanish V5.(MW)

10893 High Pitched Polytone XM) 0600Z (13.04.99) AM tonal numbers

11072 TCS E5 04/18/99 SUN 19.04 287 188 WEAK
TCS (E5) 1805 (041599) USB id 287 count 188 (DR)
E-05 04/08/99 THU 18.06 493 192 V.STRONG(SG)
TCS (E5) 1804 (040499) USB id 493 count 192 (DR)
E-05 04/04/99 SUN 18.05 493 192 WEAK
TCS, 3/2F counting (E05), 1800Z, 031899, 493/192 64898 94748
37430, //13465 (hfd)
Intel.-Service RM Air Base CIA USB YL EE 5N 22:13 08.03.99
22:40 END (ANGE) Intel.-Service RM Air Base CIA USB YL EE 5N
18:21 11.03.99 (ANGE)

11107 Spanish Man (V7)0613Z 06.04.99)AM numbers station in progress
(SD) Spanish Man (V7) 0600Z (13.04.99) AM numbers station call-
up 124 id 8712 grp 96 (SD) Spanish Man (V7) 0613Z (06.04.99) AM
in progress (SD)

11270 Russian Man 'control' (S25) 0820 (041299) AM sked 615 msg

11273 Russian Man CONTROL (S25) 0822Z (05.04.99) AM id 615 msg 66236
& 6???? according to previous loggings this broadcast was 3kHz
past the usual frequency (SD)

11430 New Star BC V13 1300 Fri 4/16/99 YL/CC 4FGx2 in progress. (JM4)

11491 TCS V5 0300 Mon 4/19/99 YL/SS rptg 038 Grupo 152 3/2FG. Note
additional schedule. (JM4)
TCS/V5 0300 Mon 3/29/99 YL/SS rptg 038 Grupo 152 3/2FG. (JM4)
TCS/V5 0300 Thu 4/1/99 YL/SS rptg 038 Grupo 152 3/2FG. (JM4)

11545 LP/E3 1500 Fri 4/16/99 YL/EE rptg 69870 5FGx2. 13375 was being
jammed. (JM4)

E-03 04/08/99 THU 15.05 62318 V.POOR(SG)
 E-03 0408/99 FRI 17.05 99197(SG)
 E-03 11/04/99 SUN 17.05 08850 WEAK(SG)
 E-03 04/02/99 FRI 15.05 66093
 E-03 04/02/99 FRI 17.05 99197
 E-03 04/04/99 SUN 15.04 99884
 E-03 04/04/99 SUN 16.03 72717
 E-03 04/04/99 SUN 17.13
 E-03 04/05/99 MON 16.06 99884 WEAK
 E-03 04/05/99 MON 17.05 72717
 LP E-03 16.06 73236
 11565 Mossad E10 0100 Wed 4/14/99 YL/EE rptg EZI 5LG. (JM4)
 Mossad (E10) 0614Z (06.04.99) AM in progress (SD)
 Mossad (E10) 0630Z (06.04.99) AM id EZI2 (SD)
 Mossad/E10 0100 Thu 4/15/99 YL/EE rptg EZI 5LG. (JM4)
 Mossad/E10 0100 Fri 4/16/99 YL/EE rptg EZI 5LG. (JM4)
 Mossad/E10 0100 Thu 4/8/99 YL/EE rptg EZI 5LG. (JM4)
 Mossad/E10 0100 Fri 4/9/99 YL/EE rptg EZI 5LG. (JM4)
 Mossad/E10 0100 Sat 4/10/99 YL/EE rptg EZI 5LG. (JM4)
 Mossad/E10 0100 Sun 4/11/99 YL/EE rptg EZI 5LG. (JM4)
 Mossad/E10 0100 Mon 4/12/99 YL/EE rptg ULX 5LG. (JM4)
 Mossad/E10 0100 Sun 4/4/99 YL/EE rptg EZI2 then down. (JM4)
 Mossad (E10) 0600Z (22.03.99) USB id EZI2 //13533 (SD)
 Mossad (E10) 0631Z (23.03.99) AM id EZI2 //13533 (SD)
 Mossad (E10) 0614Z (06.04.99) AM in progress grp 90 QRM bcst stn
 Mossad (E10) 0630Z (06.04.99) AM id EZI2 //13533 (SD)
 Mossad/E10 0100 Mon 3/29/99 YL/EE rptg EZI 5LG. (JM4)
 Mossad/E10 0100 Wed 3/31/99 YL/EE rptg EZI 5LG. (JM4)
 Mossad/E10 0100 Thu 4/1/99 YL/EE rptg ULX 5LG. (JM4)
 11566 Atencion/V2a 0300 Fri 4/16/99 YL/SS rptg A 21466 30192 92532
 5FG. (JM4) Atencion/V2 0200 Wed 3/31/99 YL/SS rptg A 10453
 82039 53351 5FG. Note new schedule. Both 7585 and 7681 were
 silent. (JM4)
 12093 High Pitched Polytone (XM) 0620Z (13.04.99) AM tonal numbers
 stn (SD)
 12160 Spanish Woman 0530-? UTC Included:39040 04932 25846 00106
 33441 18141 33921...etc. (MW)
 12165 Atencion V2a 0200 Mon 4/19/99 YL/SS 5FG in progress. (JM4)
 Atencion/V2 0200 Mon 4/12/99 YL/SS 5FG in progress. Note new
 12180 Atencion V2 0200 Wed 4/14/99 YL/SS 5FG in progress. Note new
 freq. Probable replacement for 9024 which was silent.(JM4)
 12202 Spanish Man (V7) 0610Z (23.03.99) AM call-up 629 null msg (SD)
 12207 Spanish Man (V7) 0627Z (06.04.99) AM call-up 124 id 2663 grp
 136 (SD). Spanish Man (V7) 0620Z (13.04.99) AM numbers station
 call-up 124 id 8712 grp 96 (SD). V7 08/04/99 THU 06.45 ENDED
 000,000(SG). Spanish Man (V7) 0627Z (06.04.99) AM call-up 124
 id 2663/136 msg
 12215 Atencion/V2a 0200 Fri 4/16/99 YL/SS rptg A 21466 30192 92532

5FG. Note new schedule. 6983 was silent. (JM4)

12603 LP/E3 1500 Fri 4/16/99 YL/EE rptg 69870 5FGx2. 13375 was being jammed (JM4). E-03 04/08/99 THU 15.06 62318 V.POOR(SG). E-03 04/08/99 THU 18.05 64316(SG). E-03 03/31/99 WED 17.05 73236 E-03 04/02/99 FRI 15.04 66093. E-03 04/02/99 FRI 16.00 87027. E-03 04/04/99 SUN 15.03 99884. E-03 04/04/99 SUN 17.12. E-03 04/04/99 SUN 18.04. E-03 04/05/99 MON 16.07 99884 WEAK. E-03 05/04/99 MON 18.03 08850. LP (E3) 1400 (040699) USB id 99197(DR)

13375 LP/E3 1500 Fri 4/16/99 YL/EE rptg 69870 5FGx2. 13375 was being jammed. (JM4). E-03 04/08/99 THU 15.03 62318 (SG). E-03 11/04/99 SUN 17.03 08850 WEAK (SG). LP E3 1808z (27-03-99) numbers too faint:??941 (PFR). E-03 03/31/99 WED 17.15 16475. E-03 04/02/99 FRI 16.07 87027. E-03 04/02/99 FRI 17.02 99197 E-03 04/04/99 SUN 15.02 99884. E-03 04/05/99 MON 16.08 99884

13407 Spanish Man (V7) 0652Z (06.04.99) AM call-up 124 id 2663 grp 136 (SD). Spanish Man (V7) 0653Z (08.04.99) AM call-up 124 id 2663 grp 136 (SD). Spanish Man (V7) 0640Z (13.04.99) AM numbers station call-up 124 id 8712 grp 96 (SD). Spanish Man (V7) 0652Z (06.04.99) AM call-up 124 id 2663/136 msg. 11111 09634... same as above with bcst ending 0715Z (SD)

13410 ??? M42 1215 RTTY Thu 4/15/99 (link 20076) (BR)

13436 Atencion/V2 0100 Thu 4/15/99 YL/SS 5FG in progress. Note new frequency/time. (JM4)

13444 E-05 04/05/99 MON 18.02 263 199 V.WEAK
TCS, 3/2F counting (E05), 0900Z, 031399, 709/129, //14655 (hfd)

13450 TCS E5 04/18/99 SUN 17.04 HEAVY JAMMING

13452 TCS V5 0100 Wed 4/14/99 YL/SS rptg 018 Grupo 224 3/2FG. (JM4)
JMS M42 2239 RTTY Mon 4/12/99 1/176 msg (BR)
JMS M42 2238 RTTY Tue 4/13/99 1/93 msg (BR)
TCS/V5 0100 Fri 4/16/99 YL/SS rptg 018 Grupo 224 3/2FG. (JM4)
TCS/V5 0100 Fri 4/9/99 YL/SS rptg 018 Grupo 224 3/2FG. (JM4)
TCS/V5 0100 Wed 4/7/99 YL/SS rptg 018 Grupo 224 3/2FG. (JM4)
TCS/V5 0100 Wed 3/31/99 YL/SS rptg 478 Grupo 112 3/2FG. (JM4)

13455 Atencion V2a 0202 (040899) AM SS/YL rptg 30483 (missed some) into 5Fg; msg 2 for 13541 at 0217, msg 3 at 0230. Final final fee-nal at 0244. (GH)

13460 Russian Intel AM OM EE 3NG 13:22 07.03.99

13465 TCS E5 04/18/99 SUN 19.01 287 WEAK
TCS (E5) 1805 (041599) USB id 287 count 188 (DR)
E-05 04/08/99 THU 18.15 (SG)
E-05 11/04/99 SUN 18.02 287 WEAK(SG)
TCS (E5) 1804 (040499) USB id 493 count 192 (DR)
TCS, 3/2F counting (E05), 1800Z, 031899, 493/192 64898 94748 37430, //11072 (hfd)
TCS (E5) 1807 (040199) USB id 493 count 192 (DR)

13533 E-10 04/05/99 MON 18.01 EZI2

13555 TCS (E5) 1402 (041699) USB id 886 count 215 (DR)
TCS/E5 1400 Fri 4/16/99 YL/EE rptg 886 Count 215 3/2FG. Note

new parallel. (JM4)
 TCS (E5) 1400 (040999) USB id 886 count 215 (DR)
 TCS (E5) 1405 (040499) USB id 886 count 215 (DR)
 TCS (E5) 1404 (040299) USB id 886 count 215 953/06 936/84
 913/14 (DR)
 13556 HZW M42 2009 RTTY SAT 4/10/99 2/153 msgs (BR)
 13750 New Star Broadcasting/V13 1300 Fri 4/16/99 YL/CC 4FGx2 in
 progress. (JM4)
 13893 High Pitched Polytone XM 0640Z (13.04.99) AM (SD)
 13906 TCS (E5) 1208 (040499) USB id 953 count 215 (DR)
 TCS (E5) 1200Z (28.03.99) AM id 249 count 215 msg 420 58
 //15732 alm tones prior to bcst but at 1159Z carrier off for
 approx one and a half minutes w/ bcst beginning ...49
 1234567890 (SD)
 14187 E-03 04/08/99 THU 18.04 64316(SG)
 14373 KAC M42 2058 RTTY SAT 4/10/99 1/123 msg (BR)
 14402 M42 1200 RTTY Tue 4/13/99 (link 00104) (BR)
 M42 1215 RTTY Thu 4/15/99 (link 00104) (BR)
 14421 TCS V5 0300 Sat 4/17/99 YL/SS rptg 788 Grupo 51 3/2FG. (JM4)
 TCS/V5 0300 Sat 4/10/99 YL/SS rptg 788 Grupo 51 3/2FG. (JM4)
 TCS/V5 0300 Sat 4/3/99 YL/SS rptg 788 QRM from local
 14434 KRN M42 1750 RTTY SAT 4/10/99 3/649 msgs (BR)
 14448 TCS E5 04/18/99 SUN 17.02 616 172 WEAK
 E-05 04/09/99 FRI 17.02 111 550 V.WEAK(SG)
 E-05 11/04/99 SUN 17.00 550 111? V.WEAK(SG)
 E-05 04/04/99 SUN 17.08 846 184 WEAK
 14457 WFO M42 2245 RTTY/CW to MIG Mon 4/12/99 (BR)
 WFO M42 2245 RTTY/CW with MIG FRI 4/9/99 (BR)
 14487 LP E3 1300 Mon 4/19/99 YL/EE rptg 12518 5FGx2. (JM4)
 LP (E3) 1402Z (08.04.99) USB numbers station id 66098 //15682
 //16084 (SD). LP/E3 1200 Fri 4/16/99 YL/EE rptg 56616 5FGx2
 (JM4). LP/E3 1300 Fri 4/16/99 YL/EE rptg 12518 5FGx2. (JM4)
 LP/E3 1400 Fri 4/16/99 YL/EE rptg 56616 5FGx2. (JM4). E-03
 04/08/99 THU 14.03 66093(SG). E-03 04/08/99 THU 16.01 99197
 (SG). E-03 12/04/99 MON 12.06 08850 JAMMED(SG). E-03 04/04/99
 SUN 13.11. E-03 04/04/99 SUN 14.03 64316. E-03 04/05/99 MON
 12.09 08850 JAMMED? E-03 04/05/99 MON 13.01 73393 JAMMED?
 LP (E3) 1208 (040599) USB id 08850 (DR). LP (E3) 1300 (040599)
 USB id 73393 (DR). LP (E3) 1400 (040699) USB id 99197 (DR)
 LP (E3) 1406 (032999) USB id 29070 (DR)
 14550 E7? 0312Z (040799) AM EE/OM rptg 551 000; very weak, may have
 14577 TCS (E5) 1205 (041099) USB id 522 count 215 late start to
 msg at 1213 (DR)
 14655 TCS, 3/2F counting (E05), 0900Z, 031399, 709/129, //13444 (hfd)
 14731 BPA M42 1515 RTTY SAT 4/10/99 test only (BR)
 14739 TCS/E5 1300 Fri 4/16/99 YL/EE rptg 589 Count 215 3/2FG. (JM4)
 TCS (E5) 1300 (040699) USB id 824 rapid beeps. TCS, 3/2F coun-
 ting (E05), 1300Z, 032699, 824/215 51475 10966 84614 (hfd). TCS

(E5) 1304 (040299) USB id 824 count 215 514/75 109/66 846/14
 (DR) TCS (E5) 1303 (040399) USB id 824 count 215 514/75 109/66
 846/14 (DR).

14843 JMS M42 2230 RTTY Mon 4/12/99 1/176 msg (BR)
 JMS M42 2230 RTTY Tue 4/13/99 1/93 msg (BR)
 JMS M42 2230 RTTY Wed 4/14/99 no tfc (BR)
 JMS M42 2230 RTTY Thu 4/15/99 no tfc (BR)

14890 Russian Man 'control' (S25) 0809 (041299) AM sked 615 msg
 groups: 64771 60271 (DR)

14890 Russian Man CONTROL (S25) 0800Z (05.04.99) AM id 615 msg 68416
 & 67926 (SD)

15550 E17 0207 (040599) AM in progress EE/YL 5FGx2 down by 0221 with
 8?? 8?? 93 93 00000 (GMH)

15651 TCS V5 0100 Wed 4/14/99 YL/SS rptg 018 Grupo 224 3/2FG. (JM4)
 TCS/V5 0100 Fri 4/16/99 YL/SS rptg 018 Grupo 224 3/2FG. (JM4)
 TCS/V5 0100 Fri 4/9/99 YL/SS rptg 018 Grupo 224 3/2FG. (JM4)
 TCS/V5 0100 Wed 4/7/99 YL/SS rptg 018 Grupo 224 3/2FG. (JM4)
 TCS/V5 0100 Wed 3/31/99 YL/SS rptg 478 Grupo 112 3/2FG. (JM4)

15682 LP E3 1300 Mon 4/19/99 YL/EE rptg 12518 5FGx2. (JM4)
 LP/E3 1200 Fri 4/16/99 YL/EE rptg 56616 5FGx2. (JM4)
 LP/E3 1300 Fri 4/16/99 YL/EE rptg 12518 5FGx2. (JM4)
 LP/E3 1400 Fri 4/16/99 YL/EE rptg 56616 5FGx2. (JM4)
 E-03 04/08/99 THU 14.02 66093 P00R(SG)
 E-03 12/04/99 MON 12.06 08850(SG)
 E-03 04/04/99 SUN 14.01 64316
 E-03 04/05/99 MON 12.09 08850
 E-03 04/05/99 MON 13.03 73393
 LP (E3) 1208 (040599) USB id 08850 (DR)
 LP (E3) 1300 (040599) USB id 73393 (DR)
 LP E-03 16.05 73236

15732 TCS (E5) 1402 (041699) USB id 886 count 215 (DR)
 TCS/E5 1400 Fri 4/16/99 YL/EE rptg 886 Count 215 3/2FG. Note
 new parallel. (JM4)
 TCS (E5) 1400 (040999) USB id 886 count 215 (DR)
 TCS (E5) 1208 (040499) USB id 953 count 215 (DR)
 TCS (E5) 1405 (040499) USB id 886 count 215 (DR)
 TCS (E5) 1404 (040299) USB id 886 count 215
 953/06 936/84 913/14 (DR)

16084 LP E3 1300 Mon 4/19/99 YL/EE rptg 12518 5FGx2. (JM4)
 LP/E3 1200 Fri 4/16/99 YL/EE rptg 56616 5FGx2. (JM4)
 LP/E3 1300 Fri 4/16/99 YL/EE rptg 12518 5FGx2. (JM4)
 LP/E3 1400 Fri 4/16/99 YL/EE rptg 56616 5FGx2. (JM4)
 E-03 04/08/99 THU 14.00 66093 (SG). E-03 04/09/99 FRI 17.03
 99197 V.STRONG(SG). E-03 12/04/99 MON 12.05 08850(SG). LP E3
 1808z (27-03-99) numbers too faint:??941 (PFR). E-03 04/02/99
 FRI 17.05 99197. E-03 04/04/99 SUN 13.04 73393. E-03 04/05/99
 MON 12.08 08850. E-03 04/05/99 MON 13.00 73393. LP (E3) 1208
 (040599) USB id 08850(DR). LP (E3) 1300 (040599) USB id 73393

(DR). LP E-03 L.Poacher 12.00 Mon 03/29/99 82963 v.poor
16086 TCS (E5) 1104 (040699) USB id 693 count 215 (DR). E-05 11.00
693 v.poor lost the signal so did not here the count.
16198 TCS/E5 1300 Fri 4/16/99 YL/EE rptg 589 Count 215 3/2FG. (JM4)
TCS (E5) 1205 (041099) USB id 522 count 215 late start to
msg at 1213 (DR). TCS (E5) 1300 (040699) USB id 824 rapid beeps
E-05 13.04 824 count 215. TCS (E5) 1304 (040299) USB id 824
count 215 514/75 109/66 846/14 (DR). TCS (E5) 1303 (040399) USB
id 824 count 215 514/75 109/66 846/14 (DR)
16218 HZW M42 2000 RTTY SAT 4/10/99 2/153 msgs (BR)
16314 LP (E3) 1400 (040699) USB id 99197 (DR)
16475 E-03 04/08/99 THU 18.02 64316(SG)
17416 KRN M42 1735 RTTY SAT 4/10/99 3/649 msgs (BR)
17499 CR E4 19/04/99 MON 12.02 55795(SG)
CR/E4 0000 Thu 4/15/99 YL/EE rptg 35020 5FGx2. (JM4)
CR/E4 2300 Thu 4/8/99 YL/EE 5FG in progress. (JM4)
CR/E4 0000 Fri 4/9/99 YL/EE rptg 90868 5FGx2. (JM4)
E-04 04/08/99 THU 11.00 FAINTLY UNDER SOFIA!!! (SG)
E-04 04/08/99 THU 11.00 HEARD C.RIPE TUNE VERY(SG)
E-04 04/08/99 THU 12.00 86220 FAIR NOW SOFIA HAD GONE(SG)
E-04 04/09/99 FRI 12.01 39498(SG). E-04 12/04/99 MON 12.03
90868(SG). CR (E4) 1106 (041299) USB Id 79806 (DR). CR (E4)
1204 (041299) USB Id 90868 (DR). E-04 04/05/99 MON 12.03
90868. CR (E4) 0001Z (26.03.99) USB id 68538 //22108 (SD)
CR (E4) 1106 (040699) USB id 90868 (DR). CR (E4) 1209 (040699)
USB In progress (DR). CR (E4) 1104 (040299) USB very weak and
QRM (DR)
18000 31 (pre NATO) (E15), 1100Z, 032299, SEC QRU (hfd)
18401 KAC M42 2050 RTTY SAT 4/10/99 1/123 msg (BR)
18415 8BY 3f AR (or QRU AR) (M16), 1650Z, 030799, vvv 8by
313/429/ 055 hfd). 8BY 3f AR (or QRU AR) (M16), 1650Z,
030799, vvv 8by 313/429/ 055 (hfd)
19884 CR/E4 0100 Mon 4/12/99 YL/EE extremely weak. (JM4)
19923 PSN M42 2255 RTTY Mon 4/12/99 1/767 msg (BR)
PSN M42 2255 RTTY Mon 4/12/99 1/767 msg (BR)
20474 CR E4 19/04/99 MON 10.03 42862 (SG). E-04 04/09/99 FRI 10.14
IN PROGRESS(SG). CR (E04), 1000Z, 032299, 24031, //23461 (hfd)
CR (E04), 1108Z, 032299, 4641 0641 5540 new format (4F)?,
//23461 (hfd). CR (E04), 1000Z, 032299, 24031 (hfd). CR (E04),
1108Z, 032299, 4641 0641 5540 new format (4F)?,(hfd). CR (E04),
1108Z, 032299, 4641 0641 5540 new format (4F)?, //23461 (hfd)
21866 CR E4 0100 Wed 4/14/99 YL/EE rptg 79806 5FGx2. (JM4). CR/E4 0100
Thu 4/15/99 YL/EE rptg 55795 5FGx2. (JM4). Unid 0100 Thu 4/8/99
YL/EE rptg 90868 5FGx2. (JM4). CR/E4 0100 Fri 4/9/99 YL/EE
extremely weak. (JM4). CR/E4 0100 Thu 4/1/99 YL/EE very weak(JM4)
22108 CR 0100 Mon 4/19/99 extremely weak. (JM4). CR E4 2300 Tue 4/13/99
YL/EE rptg 96808 5FGx2. (JM4). CR E4 0000 Wed 4/14/99 YL/EE 5FGx2
in progress. (JM4). CR/E4 2300 Wed 4/15/99 YL/EE rptg 42862 5FGx2

(JM4). CR/E4 0000 Thu 4/15/99 YL/EE rptg 35020 5FGx2. (JM4)
CR/E4 0000 Fri 4/16/99 extremely weak (JM4). Unid 0100 Thu 4/8/99
YL/EE rptg 90868 5FGx2. (JM4). CR/E4 2300 Thu 4/8/99 YL/EE 5FG in
progress. (JM4). CR/E4 0000 Fri 4/9/99 YL/EE rptg 90868 5FGx2
(JM4). CR/E4 0000 Mon 4/12/99 YL/EE rptg 39498 5FGx2. (JM4)
CR (E4) 0031Z (23.03.99) USB in progress (SD). CR/E4 0000 Thu
4/1/99 extremely weak. (JM4)

22865 PSN M42 2240 RTTY Mon 4/12/99 1/767 msg (BR)
23461 CR E4 19/04/99 MON 11.00 35020 V.WEAK(SG). CR E4 19/04/99 MON
12.00 55795(SG). E-04 04/08/99 THU 11.00 61640 V.WEAK(SG)
E-04 04/08/99 THU 12.00 86220(SG). E-04 12/04/99 MON 10.06 27964
V.WEAK(SG). E-04 12/04/99 MON 11.00 79806(SG). E-04 12/04/99
MON 12.03 90868(SG). CR (E4) 1006 (041299) USB Id 27964 (DR)
CR (E4) 1106 (041299) USB Id 79806 (DR). CR (E4) 1204 (041299)
USB Id 90868 (DR). E-04 04/05/99 MON 10.06 27964? V.POOR NOT
SURE ABOUT NUMBERS. E-04 04/05/99 MON 11.01 79806 V.POOR
E-04 04/05/99 MON 12.01 90868? V.POOR. CR (E4) 1106 (040699)
USB id 90868 (DR). CR (E4) 1209 (040699) USB In progress (DR)
CR (E04), 1000Z, 032299, 24031 (hfd). CR (E04), 1108Z, 032299,
4641 0641 5540 new format (4F)? (hfd). CR (E04), 1200Z, 032299,
68538 (hfd)

Tnx to the following contributors:

AK : Axel Kruse, Germany
ANGE: Anonymous, Germany
BR : Bob Roehrig, Aurora, Illinois, USA
DR : Darren Riley, NW England, UK
GH :
HFD : Hans-Friedrich Dumrese, Trier, Germany
JM4 : John Maky, Parks, Arkansas, USA
L : Larsen from Germany
MW :
PFR : Paul F. Reah, Phoenix, Arizona, USA
RP : Rimantas Pleikys, Lithuania (or was it Latvia ?)
SD : Simon Deneen, Sidney, N.S.W., Australia
SG :

-O-O-O-O-O-O-O-O-O-O-

The 'Numbers & Oddities' column a.k.a. 'Spooks Newsletter' comes to you
courtesy of the Worldwide Utility News club. This newsletter may NOT be
utilized, partly or wholly, in any other media format without the written
permission of the editor (ary@luna.nl). Any breach of this may result in
action under international copyright legislation.

To become a WUN member, send e-mail to the WUN listserver at:

majordomo@qth.net and in the BODY of the message type: "subscribe wun"
(without the quotation marks).

Check out the WUN web site at: <http://www.gem.net/~berri/wun>

-o-o-o-o-conet-o-o-o-o-